

OUR  
20th YEAR

BADGER STATE

# Smoke Signals

For Radio Amateurs • By Radio Amateurs

RETURN ADDRESS:  
Kenneth A. Ebnetter  
822 Wauona Trail  
Portage WI 53901

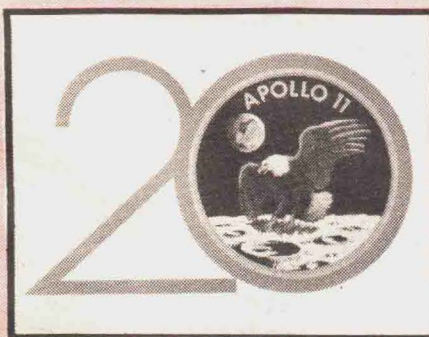
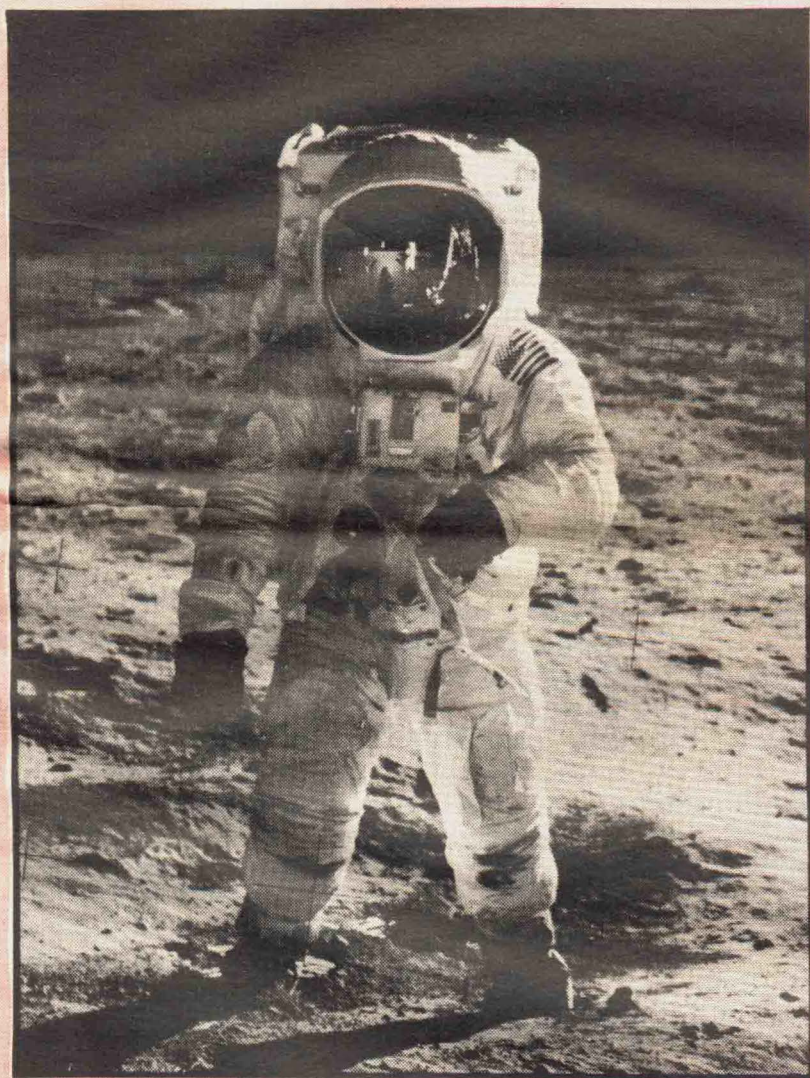
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Vol. 20 No. 7 - 235th Consecutive Monthly Issue - Baraboo, Wisconsin - July 1989

## Where No One Had Gone Before



July 20, 1969; 3:19 p.m. CDT: Apollo 11 made history's first manned lunar landing. "Houston, Tranquility Base here. The Eagle has landed." With those words from the lunar surface, explorers from planet earth landed on an alien body for the first time. Hours later, Neil Armstrong became the first human to walk on the moon, saying as he stepped onto lunar soil, "That's one small step for a man, one giant leap for mankind." That's fellow astronaut Edwin Aldrin in the photo, taken by Armstrong. The first landing was 20 years ago; five more successful landings were made on the moon. See pages 8 and 13. NASA Photo

## FCC Declines 220 Reconsideration

See Page 5

## ARRL Asks Reconsideration, Stay of New Part 15 Standards

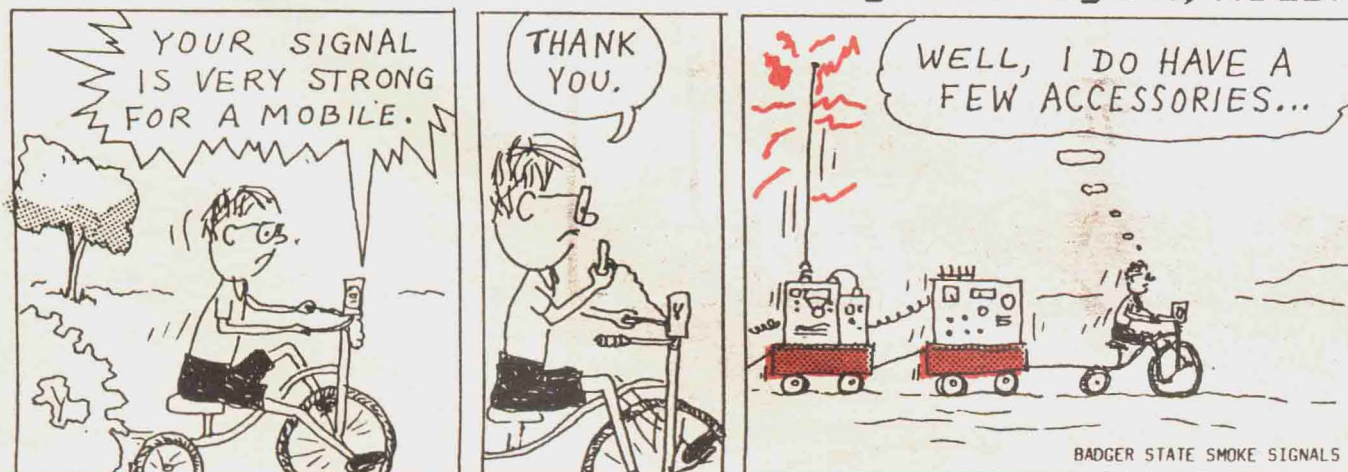
On Thursday, May 15, American Radio Relay League Counsel Chris Imlay, N3AKD, filed a Petition for Reconsideration and Motion for Stay in FCC General Docket 87-389. The petition contains a new engineering exhibit prepared by the League's technical staff that corroborates the exhibit included with the original comments in the proceeding. The League's original engineering work appeared to be the only quantitative response to the Commission's Notice of Proposed Rulemaking (NPRM), yet these results (and the comments of more than 200 amateurs documenting interference problems in the field) were dismissed out of hand in the Report and Order.

The petition establishes that the Commission erred in not responding in a reasoned manner to these comments; that the Commission's "absence of complaints" rationale for relaxing restrictions on Part 15 devices is fundamentally flawed; and that the Commission was arbitrary in excluding Part 15 devices from some bands allocated for services involving safety of life or for services that utilize very low received signal levels without excluding them also from the amateur bands (which have these same characteristics).

(Please turn to page 16)

ELMER

by Rich Regent, K9GDF



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## Swapfests and other Social Events

**SATURDAY, JULY 8, 1989.** South Milwaukee ARC Swapfest, American Legion Post 434, Oak Creek, WI. Exit Highway I-94 East to Shepard Ave. North to hamfest site. Buy-Sell-Swap-Food-Drinks-Prizes-Camping. Amateur Radio Exams. "Happy Time". Tickets: \$4.00. (For more information, see ad last months BSSS.)

**SUNDAY JULY 8, 1989.** Hamfest-Computer show held at Downers Grove, IL. Sponsored by the DuPage ARC, P.O. Box 71, Clarendon Hills, IL 60514.

**JULY 15, 1989.** Annual Eau Claire Hamfest sponsored by the Eau Claire ARC. 8:00 a.m. to 2:00 p.m. at the 4-H buildings on Fairfax St. behind Highland Mall. Free tables for ham gear, free coffee, good food at good prices, door prizes, commercial exhibitors. Amateur license tests given from 9:00 am to 1:00 p.m. - all walk-ins. Admission tickets \$2.00. Contact Gene Lieberg, 2840 Saturn Ave., Eau Claire, WI 54703. (For more information, see ad last months BSSS.)

**SATURDAY, AUGUST 12, 1989.** 10th annual Rhinelander Swapfest, sponsored by the Northwoods ARC, ARES, Tomahawk Repeater Assoc. and the Rhinelander Repeater Assoc. Set up 7:00 am - Sales 9:00 am. Tickets \$1.00. Tables \$5.00. Reserved tables available until July 31. Amateur Radio Exams. (for more information, see ad elsewhere in this issue.)

**AUGUST 19, 1989.** The 8th annual Green Fox A.R.C. Picnic/Auction starting at noon. (Rain date August 20). Free food, drink and visiting. Prizes will include a gift certificate for two for a flight on the Hot Air Balloon "Wisconsin",

which is based in Ripon, WI and officially represents the State. As always, there is no admission to this event. The proceeds of the auction pay for the costs incurred. Bring some pocket money to bid at the auction. For donations or more information, contact Jack Bremer, KB9WC, Route 1, Box 142, Markesan, WI 53946. (414) 398-2247

**SUNDAY, SEPTEMBER 10, 1989.** BARS Ham-Computerfest, Joliet, IL. Bolingbrook ARC, c/o Ed Weinstein, WD9AYR, 7511 Walnut Ave, Woodridge, IL 60517.

**OCTOBER 15, 1989.** The 11th Annual Fall Ham & Computer Swapfest, Waukesha, WI., sponsored by the Kettle Moraine Radio Amateurs, Inc. Contact KMRA Swapfest, 313 Hillview Circle, Waukesha, WI 53188.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

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## Club Meetings

**BADGER AMATEUR RADIO SOCIETY**  
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)  
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

**CENTRAL WISCONSIN RADIO AMATEURS, LTD.**  
(STEVENS POINT)  
Second Wednesday.

**EAU CLAIRE AMATEUR RADIO CLUB**  
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

**FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)**  
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

**FOX CITIES AMATEUR RADIO CLUB**  
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294.

**GREATER MILWAUKEE DX ASSOCIATION**  
Fourth Monday of the month at 7:30 p.m. Contact Jerry Scherckenbach, N9AW, at (414) 481-8831 for meeting location.

**GREEN BAY MIKE AND KEY CLUB**  
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

**GREEN FOX AMATEUR RADIO CLUB**  
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

**KETTLE MORaine RADIO AMATEURS**  
Second Friday, 7:30 p.m. at the Kettle Moraine High School, located near the intersection Hwys 18 & 83 in Wale, WI.

**LAKESHORE RPTR. ASSN.**  
Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

**MANITOWOC COUNTY RADIO AMATEURS**  
Board meeting, First Wednesday.  
General meeting, Second Wednesday - both meetings held at 7:00 p.m. at the Red Cross Building, 1816 Washington St., Manitowoc.

**MENOMONEE FALLS AMATEUR RADIO CLUB**  
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

**MILWAUKEE RADIO AMATEURS CLUB**  
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

**OZAUKEE RADIO CLUB**  
Second Wednesday - 7:30 p.m. - Saukville Community Center.

**QCWA - WISCONSIN CHAPTER #55**  
For information about QCWA, contact Richard Regent, K9GDF. The Wisconsin Chapter holds Spring and Fall dinner meetings.

**QCWA - SOUTHEAST WISCONSIN CHAPTER #162**  
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

**RACINE MEGACYCLE CLUB**  
Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

## BADGER STATE SMOKE SIGNALS

### OFFICERS AND STAFF

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### SUBSCRIPTIONS

1 year	(12 issues)	\$8.50
2 years	(24 issues)	\$16.00
3 years	(36 issues)	\$23.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebnetter, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

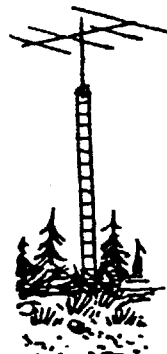
DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebnetter, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or by any other organization.



#### RIVERLAND AMATEUR RADIO CLUB

First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

#### ROCK RIVER RADIO CLUB

First Tuesday - 7:30 p.m. CST, 8:00 p.m. CDT - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 pm CST, 8:30 p.m. CDT. 7277 Khz., Saturday 10:30 am

#### SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

#### SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

#### TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD

Usually the 2nd Thursday of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wednesday nights at 8:30 PM on 147.75/15. For info call Mike, N9GHZ at (715) 223-3996.

#### TRI-COUNTY AMATEUR RADIO CLUB

Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

#### WASHINGTON COUNTY AMATEUR RADIO CLUB

Second Tuesday: ARES/RACES - 7:30 pm, club meeting - 8:00 pm, Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 pm

#### WATERTOWN AMATEUR RADIO CLUB

First Thursday of the month at 7:00 p.m., Eaton Corp., 901 s. 12th St., Watertown, WI

#### WEST ALLIS RADIO AMATEUR CLUB

Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

#### WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

#### WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

#### YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: 1989 meeting dates: Wed., Jul. 19, Thu., Aug. 17, Mon., Sep. 18, Tue., Oct. 17, Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 28B of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

## The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added since last months BSSS.)

July 15, 1989	Eau Claire WI
<u>September 6, 1989</u>	<u>Milwaukee WI (MRAC)</u>
<u>September 16, 1989</u>	<u>Milwaukee, WI (BE)</u>
<u>October 4, 1989</u>	<u>Milwaukee WI (MRAC)</u>
<u>October 14, 1989</u>	<u>Eau Claire WI</u>
<u>November 1, 1989</u>	<u>Milwaukee WI (MRAC)</u>
<u>November 11, 1989</u>	<u>Menomone, WI</u>
<u>December 7, 1989</u>	<u>Milwaukee WI (MRAC)</u>
<u>December 2, 1989</u>	<u>Stevens Point, WI</u>
Monthly, First Sat.	Racine, WI
Monthly, Last Sun.	Tomahawk, WI
Monthly, Third Sat.	Loves Park, IL

Minnesota tests listed at end of column

#### GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

#### MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

1989 dates: Sep. 6; Oct. 4; Nov. 1; Dec. 7

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required.

Register in advance on a 15 cent U.S. postal card; print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd

Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

#### BADGER EXAMINERS (BE) - MILWAUKEE

1989 examination dates: September 16.

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Number for coin telephone at exam location is 228-9994. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WA9UJK, 5119 W. Willow Rd., Brown Deer, WI 53223.

#### EAU CLAIRE, WISCONSIN

1989 examination dates: July 15, October 14

The July exams will be given in association with the Eau Claire Hamfest at the 4-H Junior Fair Grounds. All other tests will be given in the Facilities Management building on the University of Wisconsin - Eau Claire campus. Exams are given from 9 a.m. until noon. All walk-ins accepted. For further information, call Carl Searing, W9NW, at 715/834-1303.

#### MENOMONIE, WI (ARRL/VEC)

November 11, 1989.

Sponsored by the Dunn County ARC. Walk-ins only. Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomone, WI. Contact: Dr. Thomas W. King, WF9I, c/o office, 444 S. Broadway, Suite 1, Menomone, WI 54751. (715) 235-4747 (O), 235-5757 (H).

#### RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Last Sunday of every month.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings start at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other requirements.

## Wisconsin Nets Association Ltd.

WISCONSIN NETS					
Net	WNA	Freq	UTC	CDT	Manager
BWN	Yes	3984	1100	0600	KC9CJ
BEN	Yes	3985	1700	1200	WA9W
WSBN	Yes	3985	2230	1730	K9ANV
WNN	Yes	3723	2300	1800	KA9TTM
WSSN	Yes	3645	2330	1830	N9BDL
WINE	Yes	3662	0000	1900	WB9ICH
WINL	Yes	3662	0300	2200	WB9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
Gr. Bay	No	72/12	0145	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1715	1215	WC9AAG
		USB Tues and Thurs			
RACES	No	3993.5	1300	0800	WA9QAY
		LSB Sunday			

## Section Manager's notes



Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221

New Section Traffic Manager is Dick, KC9CJ (who is also Net Manager of Badger Weather Net). Send Dick your net, traffic, and PSHR monthly reports. Thanks to K9-EP for his work as previous STM, and best of health.

Watertown ARC and Tri-County ARC combine efforts for emergency communications.

The Taylor County ARC is considering becoming ARRL affiliated.

Sheboygan County ARC members will be operating from the U.S.S. Cobia submarine, using call W9DK, on August 4th through 6th. The ManCoRad Club and Manitowoc Maritime Museum will sponsor the event as the anniversary of first 1944 patrol.

WA9PWP's son Bob, N9HAD, received Eagle Scout Award from Boy Scouts of America. His other son, Steve, is KA9RMG, and wife, Jane, is N9AWW; they live in Madison.

Looking for new Affiliated Club Coordinator and State Government Liaison.

ATC and OES NB9H moved to Milwaukee.

Milwaukee Chapter 10-10 International will host convention August 11th through 13th at Grand Hotel, 4747 South Howell Avenue, Milwaukee. Forums, indoor flea market, ARRL booth, exams, prizes, and banquet will be part of the fun, plus Dave Sumner, K1ZZ, ARRL Executive Vice President is guest speaker. Be sure to attend this tremendous event. Advance tickets or info from KA9MTY (P.O. Box 83134, Milwaukee, 414-354-7452).

August 19th, Green Fox ARC Picnic and Auction starts at noon, with rain date August 20th. Free food, drink and admission.

Congratulations to newly elected directors of Milwaukee RAC: KA9MTY, N9-HBN, and KE9LL.

As a reminder, Wisconsin Association of Repeaters officers are: Chairman, N9-CCI; Vice Chairman, WB9MHS; Secretary, WA9POV; Treasurer, N9AOZ; Technical Director, KA9UOP. Thanks to Frequency Coordinator WA9JOB for his excellent volunteer work to coordinate repeater frequencies.

Sorry to report Silent Keys N9JB, KC9II, and W9CWM.

When working toward the solution of a problem, it always helps if you know the answer.

## ARES News

The planned move of the National Weather Service office to the Town of Sullivan in Jefferson County in October of this year, and the planned installation of Doppler radar in 1991, has generated considerable problems for ARES, involving the logistics of (1) personnel to operate severe weather nets, and (2) communications hardware necessary to support severe weather nets.

With the advent of the Doppler (or NEXRAD) system, amateur communications must expand and refine its severe weather operations to match the range, speed, and precision of the new radar. Traffic will have to be limited to severe weather criteria only, and speed of delivery must be improved. This dictates direct access to the National Weather Service office by spotter stations. Relaying of vital data through liaison stations must be reduced and, where possible, eliminated.

Addressing these new challenges has been the central focus of your ARES leadership over the better part of the last year.

Several new initiatives have been taken to meet these challenges. You are all aware that a special EC has been appointed to oversee the Weather Service operations at Sullivan. Also, a revised and refined severe weather procedure and policy manual has been prepared and widely disseminated. Today, we announce yet another major step toward meeting our responsibility to the National Weather Service.

During the many planning sessions looking toward these changes, the National Weather Service has reconfirmed its commitment of 20 years standing to look to the Amateur Radio Emergency Service for

coordination of severe weather communications.

The advent of the NEXRAD era dictates the creation of a new ARES repeater with wide area coverage to fill in the gaps between the Baraboo 146.88 MHz system and the Milwaukee ARES repeater.

With considerable effort on the part of a number of people and a substantial amount of good luck, a new, wide area coverage ARES repeater came to life on May 14th on 146.775, minus offset.

The repeater is located in southern Washington County, 1 1/2 miles south of Highway 167 on Highway J. It is a modern MICOR repeater, putting 30 watts into the base of a 4-element collinear at about 1350 feet above mean sea level. The effective radiated power is 278 watts. The antenna is omnidirectional, but favors the west-southwest. Reports have been heard from 35 miles southwest of Madison and from Beloit. The repeater IDs as KA9-HLP/R. The timer is set at three minutes, with reset on repeater carrier dropout. It IDs on its own every 13-15 minutes. Further tweaking remains to be done, but the fundamental system is operating satisfactorily.

The repeater is owned by HelpComm, Ltd., a Wisconsin not-for-profit corporation, which has its address record at 757 North Broadway, Suite 306, Milwaukee, WI 53202.

When the required interface equipment is installed, the repeater will carry all NWS watches and warnings, along with the 1050 Hz alert tone to keep monitoring stations current on developing or occurring severe weather. Severe weather data will preempt all traffic except incoming spotter reports.

This is an ARES repeater. Everyone is encouraged to use it as a calling frequency, and for short QSOs. It can and should be used for all normal amateur traffic. It should not, however, be used for long rag chews. The common sense and good judgment of users of the machine will be appreciated by all, as we expect large numbers of people will use it as a monitor frequency.

Fred Wendt, W9ZAG,  
Section Emergency Coordinator

Sherm Carr, W9NGT, Assistant  
Section Emergency Coordinator

John Leekley, WB9SMM, District  
Emergency Coordinator,  
Southeast Wisconsin

### WNA/ARES Publication Schedule

OFFICIALS	
Section Manager	Monthly
Section Em Coord	Jan, Apr, Jul, Oct
Section Tfc Mgr	Feb, May, Aug, Nov
Official Obsvr/RFI	Mar, Jun, Sep, Dec
State Gov Liaison	Jan, Apr, Jul, Oct
Public Info Officer	Feb, May, Aug, Nov
Affil Club Coord	Mar, Jun, Sep, Dec
Tech Coord	Jan, Apr, Jul, Oct

NETS	
BWN, BEN, WSBN	Jan, Apr, Jul, Oct
WNN, WSSN,	
WIN/E, WIN/L	Feb, May, Aug, Nov
NWTN	Mar, Jun, Sep, Dec

Information may be submitted at other times, as necessary. Send to Jim Romelfanger, K9ZZ, address on page 2.



# FCC Declines 220 MHz Reconsideration; ARRL Says: Next Stop, Federal Court

The Federal Communications Commission announced on June 15 that it had reaffirmed its decision to reallocate the 220 to 222 MHz band from the Amateur Radio Service to commercial land-mobile interests. In so doing, the FCC rejected arguments presented in some 700 petitions for reconsideration that its original decision had failed to adequately consider the impact of the reallocation on radio amateur volunteers. The American Radio Relay League (ARRL) was among the parties requesting reconsideration.

"The Commission's action today is a disappointment, but not a surprise," commented ARRL Executive Vice President David Sumner. "The entire history of this proceeding is one of the Commission ignoring evidence that did not support its preconceived position. Now it will be up to the federal Court of Appeals to determine whether, by so doing, the Commission overstepped its bounds." Sumner observed that the ARRL Executive Committee had already decided to ask the U.S. Court of Appeals for the DC Circuit to review the FCC decision in the event the Commission refused to reconsider on its own.

Just last month, a Congressional subcommittee, chaired by West Virginia Congressman Bob Wise, had conducted an oversight hearing into the Commission's decision-making process on the 220-MHz issue. "During the hearing, we observed a number of occasions where the FCC testimony overlooked evidence in the record, or contradicted what the Commission had said last August when the decision was made," Sumner said. "We had hoped that their significance would not be lost on the FCC, and that we wouldn't be forced to go to court to point them out. Instead, in the course of today's meeting, the Commission reverted to the rhetoric of last August."

On June 7, Rep. Wise wrote to FCC Chairman Patrick, urging consideration of four compromise scenarios, in which the essential interests of all parties to the reallocations dispute would be preserved. Mr. Wise stated his desire "that the Commission make sure that every possible compromise solution be considered before it takes action on the pending petitions for reconsideration." ARRL Counsel Christopher Imlay observed: "Despite Commission statements to the contrary, it was apparent today that no substantive consideration had been given to those alternatives. The U.S. Court of Appeals for the DC Circuit has repeatedly held that an agency's stating that a factor has been considered is no substitute for considering it."

In the course of discussion, the Commissioners did indicate that they would be willing to entertain, in some future proceeding, the possibility of some shared use by amateurs of the 216-220 MHz band. "We don't hold out much hope of this coming to

pass," Sumner said. "The way for the Commission to demonstrate sincerity would have been to deal with this possibility now, rather than to relegate it to some uncertain future time."

Amateurs are using the 220 to 222 MHz band for a variety of purposes, including development of a state of the art intercity data communications network that offers a backup emergency communications capability to the government and the general public.

No date has been set by FCC for terminating amateur access to the band.

- The ARRL Letter, published by The American Radio Relay League, Inc.

## PRB-3 Terminated

In February 1987, FCC requested comments and proposals to determine whether a special call sign system administered in the private sector could be implemented without additional costs to the agency. It proposed that the actual station licensing function, including the assignment of an "official" call sign, continue to be performed by the FCC. The proposed "Special Call Sign Coordinator" (SCSC) could, upon request of an individual licensee, assign one or more "special" supplemental call signs to an authorized station. These special call signs could then be used instead of the FCC-assigned call during the station identification procedures.

After considering the comments received from the ARRL and other Amateur Radio organizations, FCC concluded that a special call sign program would require the "diversion of significant agency resources" vital to the timely and efficient processing of applications for new, revised, and upgraded amateur licenses. Consequently, Commissioners Patrick (Chairman), Quello, and Dennis terminated the PRB-3 proceeding on May 21, 1989. -The ARRL Letter



## HERE and THERE

**TREKKERS DUE IN JULY:** The Trans-America Bike Trek, sponsored by the American Lung Association, is due in Wisconsin again this July. The bikers will probably arrive in western Wisconsin July 3; they will overnight in Baraboo July 4, and head for the Milwaukee area July 5. The first Trek, two years ago, brought 200 bikers; last year, there were 300. This route is more than 3,300 miles long, from Washington State to New Jersey.

They are expected to again use Amateur Radio to keep in touch with the "outside world"; if they show up on your area's 2-meter repeater, make them welcome!

Mark Ferguson, KA9WSN, of Madison, is bike-trekking for the American Lung Association, riding a newly-established route from northern Washington State to Southern California. He is dedicating his 1500 mile ride to the memory of the late Clyde "Coffee" Downing, W9HSY, who died in February, 1989.

:-----:

**THERE ONCE WAS A FELLOW NAMED DAVE**, and we printed his picture on page 15 of our last issue; however, "Dave" was the only thing we had right about him. His last name is Schafer, and his call is N9DMS, not N9BMS. Sorry 'bout that, Dave!

:-----:

**BADGER STATE SMOKE SIGNALS** was judged "superior" in the most recent publications contest sponsored by the Amateur Radio News Service.

ARNS is an organization of people involved with publishing newsletters and newspapers about Amateur Radio. It is not an Amateur Radio news source; rather, it helps those involved in publishing newsletters to find ways to produce better publications. The monthly ARNS Bulletin brings information and ideas to members, along with some articles from various papers which can be reprinted. For ARNS info (dues are \$5.00 a year), write ARNS Secretary Fran Norrick, WB9WPS, 4306 N. 23rd St., Waco, TX 76708.

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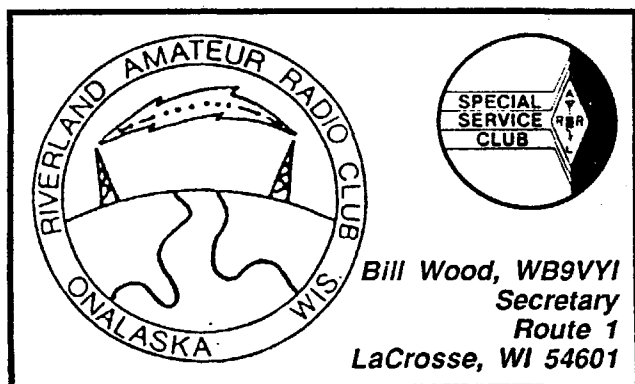
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**Bill Wood, WB9VYI**  
Secretary  
Route 1  
LaCrosse, WI 54601

The regular monthly meeting of the Riverland Amateur Radio Club was called to order at 7:30 p.m. on June 6th, 1989, by our president, Dick Low, KØJYB.

The May meeting's minutes were then called for and read. Bob Selbrede, KA9-EZR, made, and Karl Olberg, W4ST, seconded a motion to accept the minutes as read from the Badger State Smoke Signals, and all agreed.

Next, the treasurer's report was called for, and your secretary called on Greg Miller, KA9FOZ, to give this report, as Greg went over the books from January 7th until now, checked the balances, and made the proposed budget. Greg gave his report and his findings for the proposed budget for the rest of the year, and noted that with the expected expenses we might be running short of funds. A letter was read from Charlie Burch, KA9UUK, who couldn't be at this meeting because of being out of town. His letter explained to us that he understood this proposed budget Greg presented, and stated if the club were to give him three hundred of the seven hundred still owed, he would consider the four hundred as a donation. With this discussion, Dick stated that the club also has a two hundred and fifty dollar check from the sale of the old repeater. Arby Boomer,

WF9T, moved, and Craig Goldbeck, N9ETD, seconded to approve the reports as presented.

Dan McKenzie, WCØV, gave the 37/97 report, and said sometime this summer they want to take the repeater down for a day or two to make some adjustments, install an audio delay module, and an "S" meter.

Greg was filling in tonight for Charlie in the badge department.

Craig reported that his order for jackets and t-shirts was about to be submitted.

Scott Neader, KA9FOX, gave us a report on our plans for Field Day on June 24th and 25th. There will also be some setting up on Friday, the 23rd. There are plans for two operators at each radio, and there will be a Novice station, too. Steve Pavela, KA9TSN, stated that the Tribune is planning to do an article on Field Day, and plans to be up at the site. We may be having a one hundred watt transceiver running off a solar panel, according to Steve and his discussion with a company selling these panels.

There will be no July meeting.

Greg stated there have been no volunteers to take over his position as Special Service Club manager as of yet.

There was some discussion about incorporating and our liabilities as a club. No decisions were made at this time, except to write to ARRL to see what is really needed.

Greg moved that we make Charlie a lifetime member, and Karl seconded it. Vote was taken, with no opposers.

Karl moved that we adjourn, Rick Williams, KV9U, seconded, and all agreed.

Our program for the evening was antique radios. There were plenty of interesting discussions over the radios of by-gone days. There were several radios on display.

Respectfully submitted:

Bill Wood, Sec./Treas., RARC

#### MEMBERS AND GUESTS PRESENT

Duane Fruechte	W9HWQ
Walter Altus	WD9GCR
Gary Countryman	KD9RL
George Kroner	KE9PL
Hugh Barker	KAØEJZ
Craig Goldbeck	N9ETD
Mike Tessmer	NØBSH
Bill Wood	WB9VYI
Ron Reed	KD9OY
Greg A. Miller	KA9FOZ
Bob Selbrede	KA9EZR
Jack Yoshizumi	W9KTD
Dick Kleppe	KØKTP
Andrew J. Dinger	KAØSDT
Kent Helman	W9LZQ
Rick Williams	KV9U
Wid Johnson	W9DM
Maty Johnson	
Arby Boomer	WF9T
Tom Speropulos	N9IGS
Tom Gromacki	KB9BIS
Angela Gromacki	
Dick Konrad	K9DXO
Bill Kleinschmidt	N9FDE
Dan McKenzie	WCØV
Al Reinholz	N9FZE
Robert Bailey	
Art Osborn	WØJDC
Ernie Gershon	K9ZYU
Les Jenks	W9AKY
Dick Low	KØJYB
Jim Burcum	K9LBX
Karl L. Olberg	W4ST
Steve Pavela	KA9TSW
Scott Neader	KA9FOX
Dallas Miller	K9LEC

## Confrontation - or Cooperation?

### A Personal Observation

**Nels Harvey, WA9JOB**  
Frequency Coordinator,  
Wisconsin Association of Repeaters

As many of you know, I am now completing five full years as Frequency Coordinator. Over the years, I have helped many of you start a repeater and, in some cases, support you in protecting your repeater (frequency) from encroachment by others. I also have made mistakes. Efforts to place operators on frequencies have resulted in frequency changes, oversights, and other problems that, in some cases, cost them extra money, time, or both.

We have seen coordination grow, from records kept in cardboard cartons to sophisticated data base programs that compute spacings, render printouts, produce statewide repeater listings (such as carried in last month's issue of Badger State Smoke Signals) and, as a rule, kept up with

the "state of the art". Coordination now is much more than "keeping a list", and a coordinator's time is spent dealing with paperwork from several states, attending meetings several hundred miles away at times, keeping abreast of the latest PC systems to manage data bases and, in general, trying to serve fellow Amateurs pursuing our hobby.

Recently, I have been subjected to increased pressures to coordinate more frequencies in the Milwaukee area. Operators have placed repeaters in service, claimed no problems, and demanded coordination, or they promise to continue to operate uncoordinated. There has been dissatisfaction with frequencies in the 442 MHz portion, with demand for 444 MHz frequencies instead. I cannot place 2 Meter repeaters in the Milwaukee area within the standard coordination guidelines used by all the surrounding states and many states from Colorado to the East Coast. I cannot

protect a Central Wisconsin system from another one on the same frequency in another state, 109 miles away, and permit someone to operate repeaters with 80 and 90 mile spacings between Milwaukee and Chicago. If 80 or 90 mile spacings persist, what's next, 60 mile spacings? Can they work? Do you want another powerful repeater close enough to hear it every time it comes up? Or worse, operators using the other system timing out yours? Uncoordinated repeaters can extend just as far as coordinated ones, and cause severe interference problems.

We are outnumbered 10 to 1 trying to compete with Chicago. If we permit uncoordinated repeaters here, on Chicago frequencies, supposedly protected to 120 miles, just how long do you think it will be before they come back and retaliate tenfold? A system is already operating in Illinois, near the Wisconsin border, uncoordinated, just like one or two in Milwaukee. This can be contagious, just like malicious interference. I can envision Northern Illinois operators placing repeaters on such

(Please turn to page 10)



## Milwaukee 10-10 Chapter to Host International Convention

The second biennial convention of the 10-10 International Net will be held August 11 through 13 at the Red Carpet Exposition Center, 4747 South Howell Avenue, in Milwaukee. This is south of Layton Avenue and just north of General Mitchell International Airport. The convention is being hosted by the Milwaukee Chapter of the 10-10 International Net, Inc.

Activities scheduled include an indoor flea market, forums, and license exams. There will be a banquet and door prizes. The main guest speaker will be Dave Sumner, K1ZZ, Executive Vice President of the American Radio Relay League and publisher of QST Magazine.

Tickets are \$5.00 in advance, and \$7.00 at the door; single day tickets are \$3.00. Flea market tables are \$5.00, and are available on a first-come, first-served basis. Club tables are available.

Doors will open at 12:00 noon on Friday, August 11.

For tickets and information, contact Richard Schlaterer, KA9MTY, P.O. Box 83134, Milwaukee, WI 53223.

Talkin will be available on 145.13.



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**THERE IS NO CHARGE** for non-commercial ads in SSB. Send them to Ken Ebner, K9EN, 822 Wauona Tr., Portage, WI 53901.

## From Spark to Space; From Jennys to Jets



Above are, left to right: Rick Kosiorek, N9ALF; Don Baker, NB9J; Experimental Aircraft Association President Paul Po-

berezny; Wayne Jennings, WD9FLJ; Mike Jackson, WB9BBI; and Ron Pohlman, KE9MV. Photo by Larry Siebers, KD9IA.

On Tuesday, April 11, 1989, members of the Fox Cities Amateur Radio Club presented Mr. Paul Poberezny (President, Experimental Aircraft Association) with a plaque expressing the club's thanks to the association for the efforts they have made to enhance the operation of their W9ZL Special Event Station.

The plaque contains a very colorful picture of a "Warbird" in the background, as well as some history regarding the club and the special event station.

The Fox Cities Club is based in Appleton, WI, and has operated the special event station for the last three years during the largest international fly-in in the world, held at Wittman Field in Oshkosh, Wisconsin.

- Wayne Pennings, WD9FLJ  
EAA Special Event Chairman,  
Fox Cities Amateur Radio Club

## W9ZL - 1989 Operation

The Fox Cities Amateur Radio Club will operate the W9ZL Special Event Station from the 37th annual International Experimental Aircraft Association Fly-In and Convention at Oshkosh, beginning on July 29, and concluding operation on August 2, 1989.

The club will operate primarily during daylight hours from field stations on the following frequencies: 28.450, 21.300, 14.293, and 7.243 MHz.

All QSLs MUST include contact number. Special certificates will be issued for proper QSLs. Send SASE or \$1.00 for the 8" x 10" certificate to: FCARC, 318 E. Brewster Street, Appleton, WI 54911, or to WD9FLJ (per Callbook).

- David P. Boland, W9NWY, Secretary,  
Fox Cities Amateur Radio Club

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## **Eau Claire Amateur Radio Club**

**Bob Fallis, W9BAR,  
Secretary  
1851 McKinley Road  
Eau Claire, WI 54703**

The next meeting of the Eau Claire Amateur Radio Club will be held on July 11, 1989. The meeting will start at 7:30 p.m. in room 21 of the Eau Claire Parks and Recreation Building, 1300 First Avenue.

### **MINUTES OF THE JUNE MEETING**

The meeting was called to order by President Jerry Marx, NG9A, at 7:40 p.m. There were 18 members and one visitor present.

The minutes of the May meeting, as published in BSSS, were approved.

The financial report was read and approved.

It was reported that our 2 meter transceiver at the Emergency Center, that is used during Sky Warn Nets, is not working. A motion was passed that we purchase a different unit. It is to be installed ASAP, so that it will be operational before the next emergency call-up.

The balance of the meeting was devoted to getting organized for the July 15th Hamfest. Bill Jablonske, W9NNS, is chairman of this year's event. He reviewed with us all the preparation that has gone into this year's event. All members are encouraged to attend the July 11th meeting; there are still a few job assignments that are not filled. We will give away \$300.00 in cash prizes this year. We plan on assembling on Friday afternoon at 3 o'clock at the 4-H Building the day before the Hamfest to clean up the building, haul equipment, and to get all the final preparations done. Everyone is urged to participate.

The meeting was adjourned at 8:50, after which lunch and coffee were served.

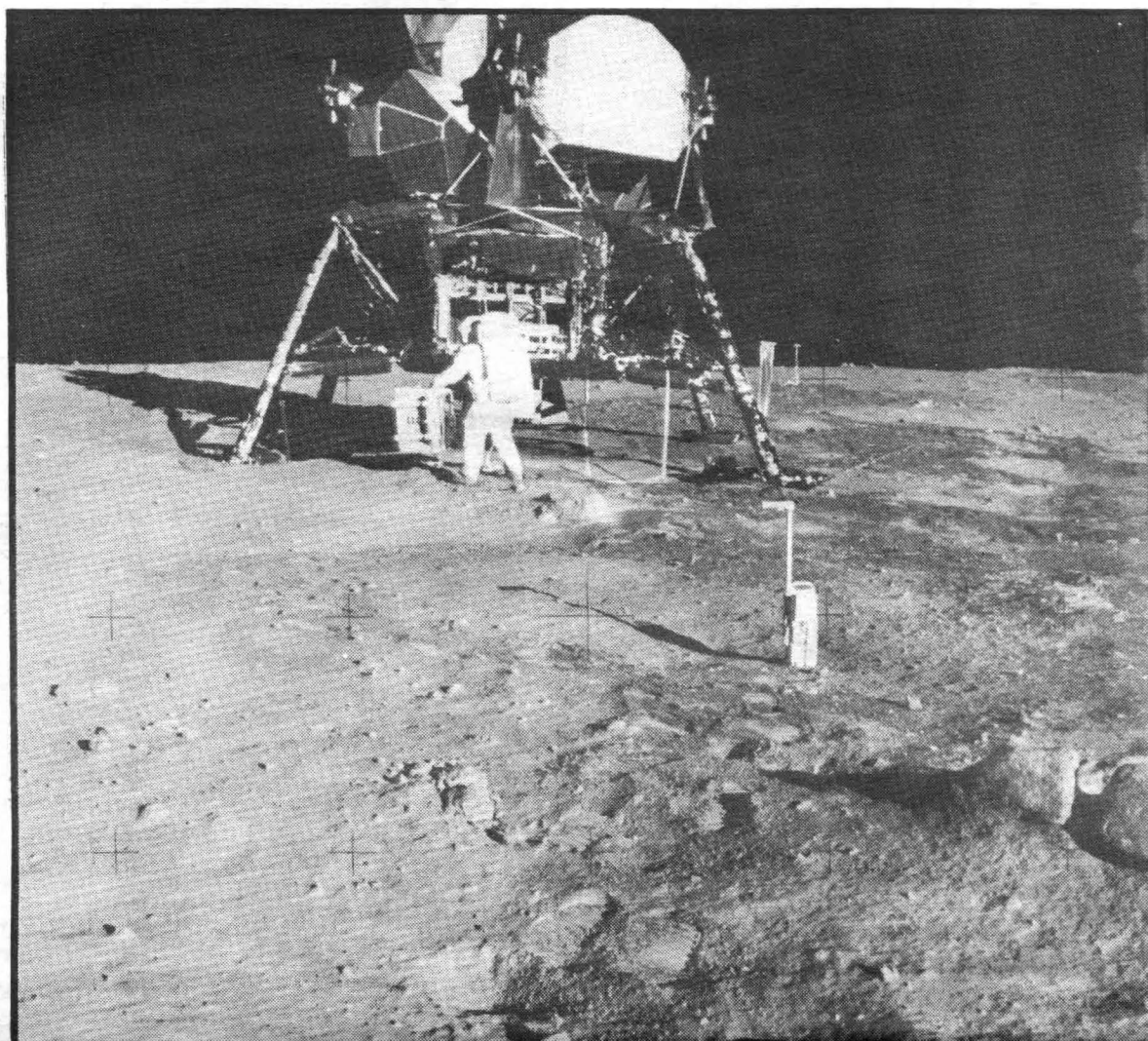
Lunch committee for the July meeting: KC9NN and N9FLN.

Respectfully submitted:

Bob Fallis, W9BAR, Secretary

**AN ADVERTISING MANAGER** is needed by Badger State Smoke Signals. This is not a "job" as such; it's something for part time. A small commission is paid, as are certain expenses. If you are a Ham, have some time on your hands, and like a challenge, contact BSSS Chairman Ken Ebner, 822 Wauona Trail, Portage, WI 53901, or call Ken at (608) 742-3560.

## **On the Moon**



In this photo, taken during the Apollo 11 Extravehicular Activity (EVA) on July 20, 1969, Astronaut Edwin E. Aldrin, Jr., lunar module pilot, prepares to deploy the Early Apollo Scientific Experiments Package (ALSEP)

on the surface of the moon. Astronaut Neil A. Armstrong, commander, took this photograph with a 70mm lunar surface camera. In the foreground is the Apollo 11 35mm stereo close-up camera. **NASA photo**

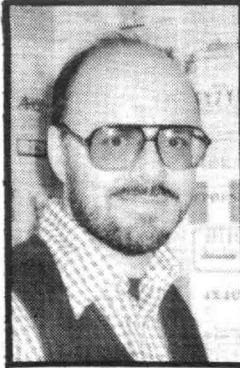


The photo of Neil Armstrong, at left, Apollo 11 commander and the first human to walk on the Moon, was taken inside the lunar module while the LM rested on the lunar surface. The astronauts had already completed their historic EVA when this picture was made. Astronaut Michael Collins, command module pilot, remained with the command and service modules in lunar orbit while Armstrong and Aldrin explored the moon's surface.

See page 13 of this issue of Badger State Smoke Signals for a photo of the Magellan radar mapper, now on its way to Venus after being released from the cargo bay of the Shuttle Atlantis in early May.

**NASA photos**





## John's Junk Box

By John W. Frank, WB9TQG  
P. O. Box 5113  
Madison, WI 53705

### AUTOMOTIVE ELECTRONICS MEMORY LOSS PREVENTION

Here's a really simple gadget I can't take credit for; my auto mechanic told me about it.

If you disconnect the vehicle's battery on newer cars, digital clocks forget what time it is, and most electronically-tuned radios lose the contents of their memories. However, a 9-volt battery, connected to a cigarette lighter plug through a diode, can easily prevent this type of "electronic amnesia".

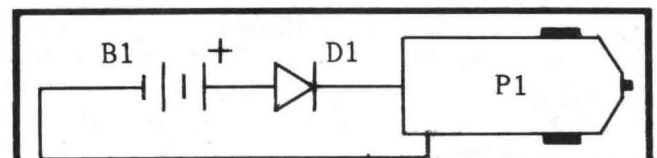
Nine volts is enough to retain the memories. The diode isolates the transistor radio battery from the battery in the vehicle, and the cigarette lighter plug provides an easy means of making the connection to the vehicle's electrical system.

Before building this gizmo, check the polarity of your cigarette lighter. On most, the shell is negative and the center contact is positive. If yours has the shell posi-

tive, just reverse the connections to the plug.

To use this gizmo, plug it into the cigarette lighter before you disconnect the vehicle's battery. The 9-volt battery in the gizmo provides the electricity to retain the memories, but that battery can't handle any other loads, like dome lights, trunk lights, or other lights that could load down the battery and quickly drain it.

That's all there is to it. This simple gizmo can save you the time it takes to reset a digital clock and/or reprogram your favorite stations into an electronically-tuned radio.



B1: 9-volt battery  
D1: Silicon diode - 50 PIV, 1 A  
P1: Cigarette lighter plug (See text for polarity caution.)

73,

*John*

### Articles, Photos Wanted

Badger State Smoke Signals can use articles and photos from anywhere about any facet of amateur radio. When submitting photos, please identify all the subjects in the photo; nothing is more uninteresting to a reader than looking at faces of people he or she doesn't know. We can reproduce photos from good quality black and white or color photos. They MUST be sharp. While it usually won't be significant, remember that red in a color photo will reproduce as black in print. Articles are always welcome. They may be submitted as hard copy, or on a disk. If you want to send material on disk, PLEASE remember: 5 1/4", single sided ONLY, IBM (MS-DOS), TRSDOS, or CP/M ONLY. Send material to the editor, address on page 2.

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# Amateur Radio Service Rules Revised, Reorganized by FCC

The Federal Communications Commission announced, on May 31, that it has revised and reorganized Part 97 in order to make the amateur service rules easier to understand, and to provide a foundation upon which future advancements in communications can be incorporated into the amateur service. The Commission said it also deleted unnecessary, obsolete and redundant rule provisions.

Prior to the May 31 action, Part 97 had not undergone a major restructuring since 1951. Since then, a number of emerging technologies, such as single sideband and frequency modulated telephony, VHF and UHF repeaters, radioteleprinting (RTTY), satellite transponders, digital communications, and other modes have become popular with amateur operators. While rules have been modified or added to accommodate these technologies, the result has been a patchwork of rules surrounding an antiquated structure that is often confusing.

Part 97 has now been restructured into a format consisting of six subparts and two appendices. These are:

Subpart A, General Provisions, containing rules concerned with license and station location requirements;

Subpart B, Station Operation Standards, which is composed of those standards that apply to all types of amateur station operation;

Subpart C, Special Operations, containing the requirements that apply to specialized operations, such as beacons, repeaters, and the amateur satellite service;

Subpart D, Technical Standards;

Subpart E, Providing Emergency Communications, containing the rules applicable to operations in distress and disaster situations, along with the Radio Amateur Civil Emergency Service; and

Subpart F, Qualifying Examination Systems.

Appendix 1 lists the geographic areas where the amateur service is regulated by the FCC, and

Appendix 2 lists volunteer examiner

coordinator regions.

The new Part 97 combines the rules that pertain to an amateur station providing emergency communications with those governing Radio Amateur Civil Emergency Service (RACES) stations. They do not alter the basic principles or purpose of the amateur service in the U.S.

The general prohibition against amateur stations transmitting communications as an alternative to other authorized radio services has been clarified to permit emergency communications. The new rules also allow the use of amateur stations to provide communications that relate to the public's safe observation and participation in parades, marathons, or similar public events, if the principal beneficiary of such communications is the public and any benefit to the event's sponsor is incidental.

Communications relating to the buying and selling of amateur station apparatus is also permitted as an exception to the general prohibition against business communications. This exception does not apply to those seeking to profit from such sales or purchases on a regular basis.

Another exception is for communications that assist journalists in filing reports. Such reports, however, must not detract from the efforts of other stations that are actually engaged in providing emergency communications.

FCC has also "codified" certain policies that have developed over the years based on interpretations of Part 97. For example, the policy that a telegraphy receiving test alone is adequate proof of both sending and receiving is now part of the code. In addition, the existing policy concerning the height and placement of amateur station antenna structures and the essential holding of the Commission's limited preemption (PRB 1) is also included in the Part 97 code.

The revised Part 97 is expected to become effective on or about September 1, 1989.

- The ARRL Letter, published by the American Radio Relay League

## Chaos - Or Order?

(Continued from page 6)

frequencies as 145.13 MHz, 146.91 MHz, 147.27 MHz, 147.075 MHz, 146.82 MHz, or many other Southeastern Wisconsin frequencies.

The time to deal with this is now. I am willing, as I have always been, to coordinate based upon the policies put forth by W.A.R. I do not, nor am I willing to make, those policies. That's up to the members of the Association and the officers that you elect. It's not my job to "police" the frequencies.

The very existence of this Association is being threatened by the problems that I have outlined, and a few others. We are coordination, you and me, and anyone operating a "coordinated repeater" here in Wisconsin. You (W.A.R. members) have kept W.A.R. afloat with your contributions and kept us motivated by your trust in us to deal fairly with you. My question is "How can W.A.R. continue to properly help you, considering the climate of self-serving that is emerging?"

One thing is clear. I do not intend to continue being subjected to undeserved criticism. I have invested too much personal time and money, used up too much vacation time and miles on my car to continue under these circumstances. It's up to you. Something is wrong if, when I go to swapfest, I am confronted by someone who, with obvious dissatisfaction because he cannot get another 2 Meter coordination in Milwaukee, proudly proclaims that he is operating two uncoordinated systems. Yes, something is wrong! Is it me? If so, select someone else. These issues need to be addressed at the next W.A.R. meeting. W.A.R. is counting on you to make the difference.

- Wisconsin Association of Repeater Newsletter, June, 1989

Problems such as those outlined above by Nels Harvey are not unique to Wisconsin, but are occurring all across the United States, and reflect increasing selfish and uncooperative attitudes. However, cooperation is essential if any semblance of order is to prevail; the alternative is chaos. If the problem continues to grow, then maybe it is time for the Federal Communications Commission to coordinate and license amateur repeaters.

- Editor

## Cycle 22 News

The 11-year sunspot cycle is gearing up for a predicted peak in December, 1989. Researchers predict it will be one of the most violent in 250 years.

According to researchers at the National Oceanic and Atmospheric Administration (NOAA), the intensity of sunspot activity is expected to increase between now and December. NOAA reports the average number of solar flares (51.3 per month over a 13-month period) is greater than that observed in a simi-

lar period in 1957 (40.7), previously the strongest sunspot cycle ever recorded.

NOAA researchers predict that the present cycle will peak close to 200 sunspots per month. Massive magnetic storms on the sun, which have played havoc with radio communications and electric power transmission, are expected to continue throughout this period.

- Wordradio via The ARRL Letter

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## Bill Welsh Plan for No-Code License

The Ham credited with training more new Radio Amateurs than anyone else has fielded a far-reaching proposal to revitalize the United States Amateur Radio Service, and part of his plan is to completely abolish any requirement for Amateurs to be tested on a knowledge of the Morse Code.

Bill Welsh, W6DDB, who has dedicated his life to bringing new licensees into the service, has filed a request for rule making with the FCC that some say is the most imaginative and creative of the several No Code-related filings before the Commission.

Extra Class licensee Welsh, who has taught Ham training classes at Lockheed Aircraft's LERC Amateur Radio Club since coming to California, and who has always preferred CW to any other mode, says that the time has come to not only reconsider the need for knowledge of the code as a precondition for an entry level license, but for all licensees and classes as well.

Not only does W6DDB propose to abolish the mandatory code requirement and make it an option, but he also feels it is time to completely restructure the service to keep it up-to-date for the times we live in. Welsh said, "When the Global Maritime Distress and Safety System is implemented in 1993 and becomes mandatory in 1999, the reason for requiring prospective Amateurs to pass code tests will be eliminated." As a result, he suggests that as CW is eliminated from the Maritime Service, so should it be placed to rest in Amateur Radio.

To preserve quality in the service, Welsh has come up with an innovative scheme that provides for a candidate to prove knowledge of a given facet of Amateur Radio and, at the same time, to provide him with the incentive to gain more knowledge and privileges to the level that he might desire.

W6DDB proposes that any future candidates for an Amateur entry-level license choose a mode that he desires and be tested on that mode, along with other basic test questions dealing with rules, regulations, and operating procedures directly related to that chosen entry level mode. In other words, if a candidate has aspirations to only operate SSB phone, then his entry level test and license would revolve around that mode. If he passed the exam, which might even include an actual, on-the-air exhibition of his operating ability, then he would be granted a license to operate his chosen mode in specific subbands within chosen Amateur band allocations. Additional mode and expanded band privileges would be earned by passing additional written and on-the-air operating tests, and each additional mode achieved would also bring with it expanded access to operating spectrum.

By way of example, a single mode license might restrict the holder to SSB phone on 10 meters, while a two-mode license, such as a combined phone/CW ticket, could bring operation on wider band segments of his single mode license, plus subbands on other allocated Amateur bands.

Welsh also suggests that existing modedefined subbands should be initially retained and reapportionments made as the operating habits and levels of interest dictate. He also suggests retaining the current call-sign scheme, but not the prevailing license classes. Rather, W6DDB says that the Novice through Extra should be abolished, and holders of these licenses be grandfathered to a new license apropos to the class and privileges they currently have. Welsh says that current Extras should be granted an all-mode, all-band endorsement; Advanced and General holders should be granted a license with all but facsimile/pulse modes; Technicians and Novices would receive a two-mode license authorizing them only CW and voice privileges.

About the only negative point to the Welsh proposal, from the FCC's perspective, is their previous guideline to not take away any existing privileges currently enjoyed by a given license class. In this case, Novices, Techs, Generals, and Advanced Class holders would lose pulse and FAX (including RTTY and packet) and Techs would lose modes like ATV and several others.

On the positive side, this appears to be the first well thought out approach to curing the ills that have befallen Amateur Radio and have stunted its growth, and is the first proposed license structure that takes into account and tests an applicant on his ability to actually operate on the air in a routine manner, and permits the candidate to achieve the operating status he wants, based on performance and operating proficiency, rather than by rote memorization alone.

With slight changes, this proposal could become the foundation for carrying Ham Radio into the 21st century and beyond.

- The Westlink Report

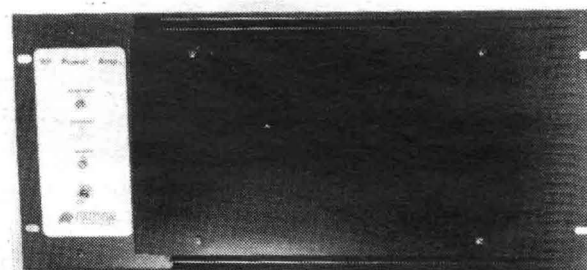
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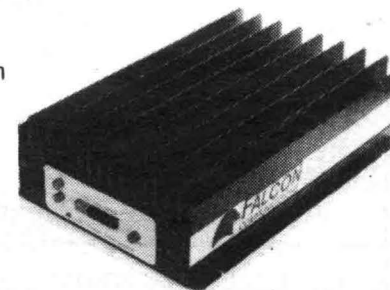
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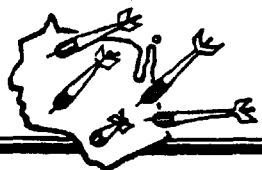


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## HERE and THERE

**FAST FOOD** is being served with the help of radio. Many neighborhood fast-food drive-in services have introduced two-way radio to speed up their services. You may have noticed that some of the personnel in these establishments wear a headset composed of a boom mike and earphone connected to a small pack on the employee's belt. This is a low power, split frequency radio system. The lower frequency is used at the outdoor menu/order sign, while the higher frequency is the return channel to the sign from the employee. Most McDonalds' operate on 35.02/154.60 MHz, while Arby's, Wendy's, Burger King, and Kentucky Fried Chicken restaurants are found on 33.14/151.895 MHz. The ranges of these radio systems is short.

(Communications Center  
Newsletter via Westlink Report)

:-----:

**DINNER MEETING WITH U2MIR:** Friday night, May 12, Dick Daniels, W4PUJ, Rich Zwirko, K1HTV, John Shew, N4QQ, and Tom Clark, W3IWI, had the opportunity to meet with Musa Manaroff, U2MIR, for dinner in the Washington, DC area. Musa, one of the Soviet Cosmonauts who operated on 2 meters from the Russian Mir space station, was visiting the US where he was meeting with a number of space medicine scientists as proof that a human can survive 366 days in orbit with no ill effects.

In the course of conversation, Musa commented that such a long mission is very boring and, when the amateur radio equipment (a Yaesu FT-290) arrived in early November, 1988, it provided much enjoyment.

If you happened to be fortunate enough to make contact with the Mir space station, QSL cards from U1MIR, U2MIR, U3MIR, U4MIR, and U5MIR, may be obtained by sending your card to Boris Stepanov, UW3AX, P.O. Box 679, Moscow, 107207, USSR.

:-----:

**HUFFING AND PUFFING,** the Great Circus Train will leave Baraboo at 9:00 a.m. on Tuesday, July 11, on a two-day trip to Milwaukee, pulling many colorful flat cars loaded with even more colorful circus wagons for the Great Circus Parade in Milwaukee on July 16. Radio Amateurs will be aboard the train, operating two meter FM, and providing mobile telephones for the press and officials. The train will

stop overnight in Janesville, and continue to Milwaukee July 12, via the Chicago area. The train will, as far as is known, again be pulled by the former Chicago and North Western steam locomotive 1385 (the same locomotive currently being seen in a TV commercial for Illinois tourism, pulling Abraham Lincoln's funeral train).

The train's Amateur Radio station will be on the Baraboo 146.88 repeater for the first part of the trip, and will probably then change to the 145.45 Janesville repeater after the train is south of Madison. We do not have information about which repeaters might be used on the second day of the journey. The circus train is a wonderful sight, and you are encouraged to

make every effort to see it. It travels on Chicago and North Western right of way.

The Milwaukee Circus Parade is huge, and so is the communications effort by Amateurs. If you expect to be in the Milwaukee area July 16, and if you would like to help the communications effort, get in touch with Milwaukee County Emergency Coordinator John Leekley, Jr., WB9SMM, W169 N8480 Sheridan Drive, Menomonee Falls, WI 53051. The parade net is one of the largest operations of its kind in the Midwest, and your help would be appreciated.

:-----:

**YOUR SUBSCRIPTION** to BSSS would be appreciated; use the blank on page 5.

# TENTH ANNUAL RHINELANDER SWAPFEST AUGUST 12, 1989

**RHINELANDER WI  
SPONSORED BY  
NORTHWOODS AMATEUR RADIO CLUB  
ARES - TOMAHAWK REPEATER ASSOC.  
RHINELANDER REPEATER ASSOC.**

**GIGANTIC RHINELANDER ICE ARENA**

**HAM RADIO TESTING DEURY UEC (AM ONLY)**

**TICKETS \$1.00**

3' by 8' tables will be available for \$5.00 each. Reserved tables will be available until July 31st or till space or tables are used up. All reserved tables must be prepaid. This year the ice association will be paving the ice area about the time of our swapfest so there will be no space inside for tailgating. Anyone bringing their own tables may reserve space inside at \$3.00 per table or may set up in the parking lot at no cost. There will be no charge for parking.

Rhineland Repeater 146.34/146.94 Tomahawk repeater 144.83/145.43  
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## Amateur Radio: Flying High

AMSAT has been in the news a lot lately but, what is AMSAT?

Formed in 1969, AMSAT is a group of Amateur Radio operators worldwide who communicate through Amateur Radio satellites. Amateur participation in space communications goes back as far as 1961, when a group in California (Project OSCAR) designed and built OSCAR 1. OSCAR is an acronym for Orbital Satellite Carrying Amateur Radio. Since 1969, AMSAT groups have participated in the design, construction and operation of OSCARs 5 through 13. Recently, each AMSAT group adopted a location designator. The North American group is known as AMSAT-NA.

When thinking about getting on any of the five currently active OSCARs, you may wonder what there is to do. There are a number of awards that you can work towards. These include WAS, Satellite DXCC, and a series of technical achievement awards. The ZRO Technical Achievement Award is given to those who demonstrate superior station performance in a receive sensitivity test via satellite. The new "SatFax Test" is a unique way to go on a hidden transmitter hunt from your shack, using a satellite to find a hidden "fox" transmitter. Or, you can sit back and engage in an old fashioned rag chew on OSCAR.

AMSAT-NA sponsors weekly nets to provide the latest news of the amateur space program. Nets meet Tuesday evenings on 3.840 MHz. The East Coast Net begins at 2100 Eastern Time (2000 Central Time); the Mid-America Net begins at 2100 Central, and the Pacific Net begins at 2000 Pacific. On Sunday, AMSAT-NA nets convene at 1900 UTC on 14.282 and 21.280 MHz.

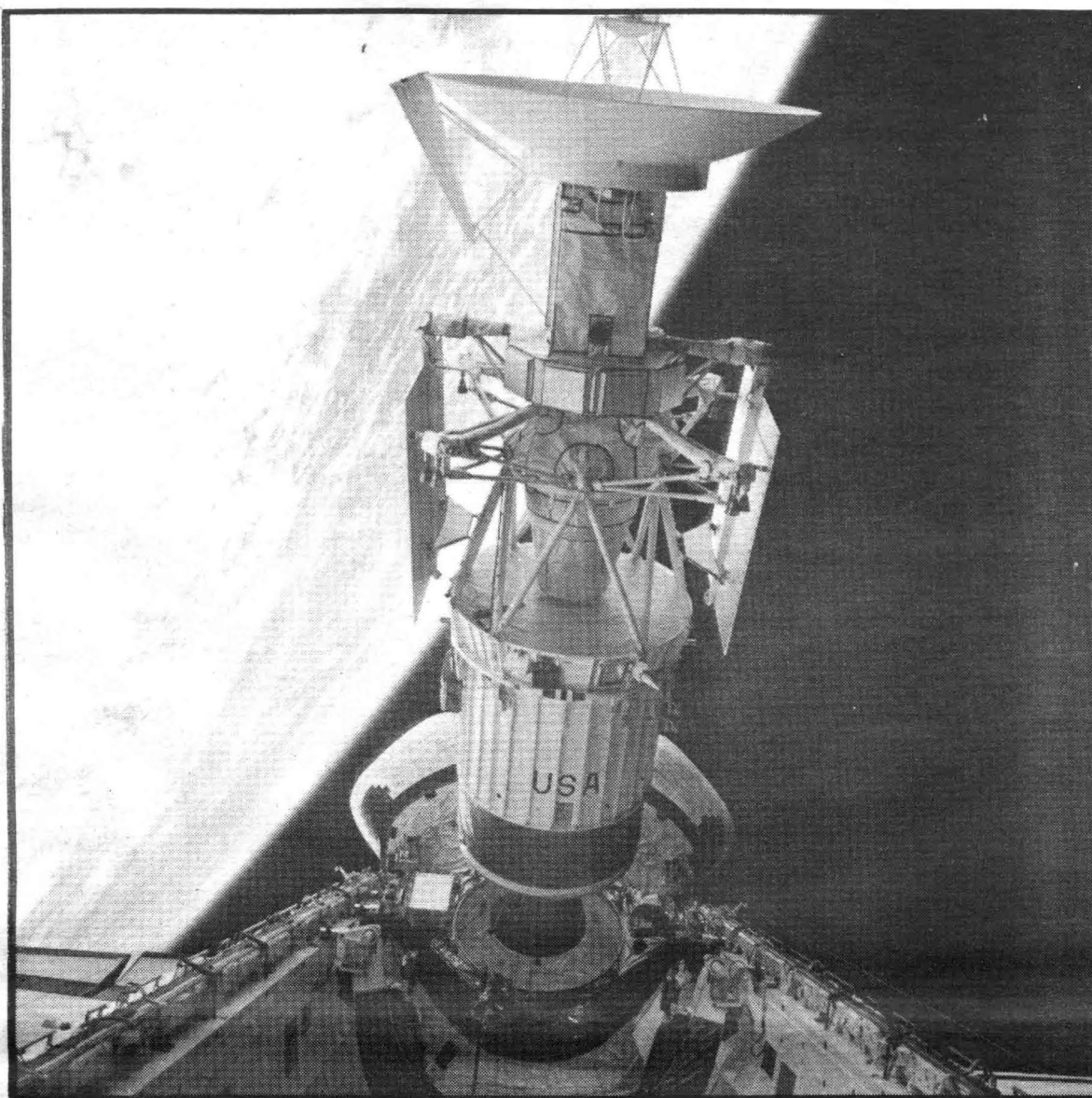
OSCAR 13 is the latest and most technologically complex amateur radio satellite to date. OSCAR 13 is now on the air and available for you to use. It has four transponders on board with a combined bandwidth of nearly half a megahertz. The standard modes of CW, SSB, RTTY, packet, FAX, and SSTV operations are permitted. OSCAR 13 is in the best orbit OSCAR has ever had, and now provides near hemispheric coverage from which it can link amateurs continents apart for hours on end. Eight hour coverage is not unusual.

This year will be spectacular, with as many as a half dozen new OSCARs being launched. These will be a new class of PACSAT (Packet Radio Store and Forward) satellites, for linking packet communicators on earth.

For nearly two years, design teams have been working on the next series of amateur satellites. The Phase IV class OSCARs will be placed in geosynchronous orbit, and will provide full 24 hour communications capability without the need for tracking. For more information about AMSAT-NA, write to: AMSAT-NA, P.O. Box 27, Washington, DC 20044. (Thanks AMSAT-NA).

- The ARRL Letter

## Enroute to Venus



In the early evening hours of space shuttle Atlantis' first day in space, May 4, 1989, for its four-day STS-30 mission, the Magellan spacecraft is released into space for its long journey to the planet Venus for an extensive radar mapping mission. The scene was photographed through Atlantis'

aft flight deck windows, with a handheld 70mm camera. The Magellan was released from Atlantis' cargo bay by Mission Specialist Mark Lee, who is from Viroqua, Wisconsin. NASA's Chief Astronaut is Dan Brandenstein, from Watertown, Wisconsin.

NASA photo

The official NASA commemorative logo marking the 20th anniversary of the first manned lunar landing is on our cover. It incorporates the original Apollo 11 crew insignia within the circle of the figure 20. The crew insignia depicts an eagle descending upon the lunar surface holding an olive branch, symbolizing America's peaceful mission. The art work was done for NASA by Alan H. Chinchar.

Amateur Radio has been involved in space communications since the very beginning of the U.S. space program; see the story about the Radio Amateur Satellite Corporation (AMSAT) in the left column on this page. Badger State Smoke Signals will publish NASA photos as space (pun absolutely intended) allows.

## FCC RELEASES NEW AMATEUR RULES

On June 9, the FCC released the Report and Order completing the reorganization of Part 97 of the rules governing the Amateur Radio and Amateur Satellite Services (see page 10). The new rules will be effective Sept. 1, 1989. Copies of the Report and Order may be obtained by sending a check or money

order in the amount of \$3.00 to the American Radio Relay League, Dept. SR., 225 Main St., Newington, CT 06111.

Copies of the League's new edition of the FCC Rule Book, based on the reorganized rules, are expected to be available in August.

- The ARRL Letter

# No-Code Comments

We published a survey form, with 14 questions regarding a possible Amateur Radio license requiring no knowledge of code, in our April issue. The results were published in our last issue. Some of the responses were accompanied by letters, with numerous thoughts and ideas about the subject of a no-code license. Here are as many of the letters as we have room to print in this issue. Our thanks to everyone who responded to the survey, and to those below, for sharing their ideas with us. - Editor

## ALL FOR NO-CODE

This past few months, I have done a lot of listening on the bands, for more or less activity. As a result, I have changed my mind, and am now all for "No-Code" above HF.

In this area, there is much more activity above 30 MHz (packet, 144, 220, repeaters, etc.)

I can remember how many hours I spent learning CW. But, as Shakespeare once said, "The old order changeth, and gives way to the new."

The "Smoke Signals" is great. Thanks.

Howard Trimble, K6TER  
San Diego, CA

## THE ZED VICTOR ZED PROPOSAL

Sometimes the solution to a problem is so simple and obvious that the smoke and fire of opposing views tends to obscure it completely. Such is the case in the current controversy over code or no-code licensing.

Why not have your cake and eat it, too? Simply eliminate element 1A (the 5 WPM code) entirely? Administer the written by at least 2 VEC certified VEs. That's it! Code suffers not a bit, and yet those who get on the air without it have every opportunity to explore HF voice and code, and use it as they learn. For those who absolutely hate it, they can go get their Technician license and work all the packet, 2-meter repeaters, fast-scan TV, etc., that their technological wizardry can dream up. Simple, effective, not dangerous to your territory, or mine, or theirs. Certainly advantageous to our hobby.

Dave Hanson, K9ZVZ  
Strum, WI

Editor's Note: Licensing of Radio Amateurs for operation below 30 MHz

who do not have knowledge of code is prohibited by international treaty. (Only one respondent to our survey noted this.) However, one must consider that at some point the treaty could be modified to eliminate the prohibition.

## THE PROBLEM IS US

Regarding the no-code proposals:

Ham Radio is a hobby, a service, and a fraternity, not business oriented or commercial. Let's keep it that way, instead of trying to pump it up with an influx of "new" young blood, and a no-code entry license.

No, I don't have my head stuck in the sand, and I'm also not saying just because I had to pass a code test, so should everyone else. What are we doing, kidding ourselves? Kids nowadays from 3rd grade on have probably spent more time learning "hard" things, like multiple computer languages, computerized school research in communications and science classes, and advanced math skills than we old timers ever did. Kids are not dumb today, or lazy, either.

The problem is us, the Hams who have been licensed 10 years or more. Many of us only discuss our last procto exam or other old timer chatter. This does not excite a junior or senior high school student.

Let's welcome new, young people into our "secret society". Here are a few suggestions to accomplish that challenge:

A. Let's voluntarily send a subscription to Badger State Smoke Signals and QST to every high school and junior high in the state - clubs and seriously interested "old timers" could find ways to raise the money. Then:

B. Offer Ham Radio demonstrations to all schools - no lip service - do it! There are many retired Hams who have the time. But.... arrange a professional series of QSOs, so the kids enjoy the program. Use the K.I.S.S. principle - Keep It Simple, Stupid. Then:

C. Have many Novice classes announced to schools, and challenge each of us old timers to bring, and not send, a prospective Ham to the first session. Assign a licensed Ham to coach his prospect beyond the test - to include the new Ham's station set up and proper operating procedure. "Elmers" should keep in contact with their new Hams. (I still communicate with my Elmer, after 32 years of Hamming).

In summary: Hams teach people to be

Hams. Code is a very acceptable part of the challenge. Let's welcome and teach new people. They're smart enough. Don't give an easy license to a perfectly able candidate.

- Bob Garske, K9JMP  
Poynette, WI

(Bob is a former high school teacher. -Ed.)

## SEVERAL FACETS TO THE PROBLEM

While the pool of young people is probably getting smaller, I think that there are other factors that influence a young person's interest in hobbies like Amateur Radio:

1. The technically-minded young person has such a wide range of options from which to choose besides Amateur Radio: computers, aerospace, photography, astronomy, home sound systems - this list just goes on and on. It must be like a smorgasbord for today's young people.

2. For the well-motivated learner (most Amateurs fit into that category), particularly one in high school, college, or early career, the need to remain academically or professionally competitive consumes vast amounts of time. Many simply do not have time to give to Amateur Radio. And, let's face it, Amateur Radio is a time-intensive hobby. While there are many exceptions, it seems that older people who "have it made" can better afford the time.

3. Amateur Radio can be (and usually becomes) an expensive hobby. For many young people, electromagnetic propagation of ideas is no longer so awe-inspiring and fascinating as it may have been to previous generations. They are not inclined to make the financial commitment that it usually involves.

4. Computers and computer-related activities have siphoned off many young people who might otherwise have turned to Amateur Radio.

My list could go on at some length, but my point is that Amateur Radio, as it is now constituted, is fighting a losing battle if the aim is to attract hordes of today's young people.

While I think that some of the problem lies with the hobby, I tend to think that more lies with the way today's young people interact with the world. Some won't try anything if it takes more work than operating a stereo; the highly

(Continued on next page)



# No-Code Comments

(Continued from preceeding page)

motivated ones are too busy to take up an old man's hobby; the intelligent loner (sometimes called a nerd) usually ends up making friends with a computer.

Besides all this, Amateur Radio is also facing the same dilemma that educators face: how to turn on today's young people to learning. Some educators try to solve the dilemma by cutting out homework. It doesn't work. Neither will Amateur Radio solve the dilemma by eliminating the code requirement. Such solutions only reinforce the impression that if you just wait long enough, you'll get what you want without having to work for it.

If it's that important to increase the number of young Radio Amateurs, I think we'll have to work just as hard at changing society's values as we do at changing the format of our hobby. If we only change the latter, we'll create happy manufacturers and magazine publishers, but I'm afraid we'll seriously undermine a fine hobby.

The bottom-line question: Do we need to get hung up on numbers?

- Wm. G. Menzel, KA9D  
Eau Claire, WI

## NO-CODE: DEVASTATING, CANCEROUS

The only benefit of a no-code license would be increasing the physical size of the Amateur Radio Service, but not the quality. The drawbacks, a dramatic average decrease in quality operations, and a less technically competent and motivated license base (per age level), greatly outweigh the single benefit. The consequence of a no-code license would be a devastating, unrecoverable result to the Amateur Radio Service. The highest standards MUST be maintained. There are enough "bad apples" in the service at present; we cannot afford more! In other words, the testing standards should not be lowered for the sake of increased numbers.

A better way to increase the number of Amateur Radio licensees, especially younger people, would be an active campaign to establish and maintain close support (including equipment loans, etc.) with grade school and high school clubs by Amateur Radio individuals and organizations. A major reason for the lack of younger people joining the ranks of licensed operators is the average start-up cost to set up a personal station. (And, don't try to tell me that you can set up a station for under \$150.00 - realistically, that's the exception rather than the norm!) Remember, we are talking YOUNG

and generally pre-workforce people - try rationalizing a capital expenditure to a 12-year-old, with little or no cash resources!

To that end, manufacturers and vendors should be producing and selling low-cost kits, within the budget of the younger person. Think of it: how many operators' first radio was a kit they built, learning circuit applications by hands-on experience? Where are these low-cost kits? They have been sacrificed in lieu of higher manufacturers' profits - have you checked out kit prices and quality lately - far outside the average young person's expertise and price range!

I regularly loan my excess HF and VHF equipment to newly-licensed Amateurs that I have "Elmered" until they can allocate enough funds to purchase their own equipment. This has shown to be a major factor toward obtaining an Amateur Radio license among younger individuals.

Until the FCC authorizes an Amateur Radio license where Morse Code emissions are specifically EXCLUDED, I can see no logical reason why a no-code license should even be considered!

Steve Loeffler, WB9ZRE  
Ripon, WI

## From the Editor

Will Amateur Radio have a no-code license? The Federal Communications Commission will have the final say in the matter, of course.

An advisory committee of the American Radio Relay League has recommended a code-free license; that committee's report will be considered by the League's Board of Directors at their meeting in July. The committee's recommendations are not binding on the Board; the Board can adopt the entire committee report, parts of it, or reject the entire report. If the Board decides to ask FCC for a code-free license, the League would petition the FCC for such a license.

A group in Florida has already filed a petition with the FCC, asking for a no-code license. Several other petitions for a no-code license have also been filed, including one by Bill Welsh, W6DDB; see page 11. No action has been taken on these petitions at the time this is written.

Many BSSS readers responded to our survey; if you did so, please accept our thanks for adding your thoughts and ideas to the discussion. Your input is greatly appreciated!

## Milwaukee License Classes Scheduled

The Milwaukee Radio Amateurs' Club is again sponsoring amateur radio classes for prospective radio amateurs or for amateurs interesting in upgrading to a higher license grade.

The licensing classes will be presented on twelve successive Wednesday evenings, from 7:30 to 9:30 p.m., beginning August 30 and ending with the class on November 15, 1989. Class dates are August 30; September 6, 13, 20, 27; October 4, 11, 18, 15; and November 1, 8, and 15.

The classes will meet at Wauwatosa East High School, 74th and Milwaukee Avenue, Wauwatosa, WI. Registration will be August 30 in room 256 on the second floor.

You must pre-register by sending your name, address, telephone number, and a fee of \$12.00 for the course. Texts, as required, will be sold at the school for nominal additional sums.

To register, or for more information, please contact Ed Seruga, KE9JJ, at 414/545-6299, or H. Cieszki, KD9AJ, at 414/546-0647, or write to Milwaukee Radio Amateurs' Club, Inc., P.O. Box 91, Milwaukee, WI 53201.

- Ed Seruga, KE9JJ

## Assemblyman Explains Swapfest Vendor Reporting

The following letter is from Dale W. Schultz, State Representative, 50th Wisconsin Assembly District. The letter is a response to a note I sent to him:

June 15, 1989

"Persons at flea markets who are occasional sellers (defined as those with less than \$1000 in annual sales) are exempt from reporting sales tax. However, those sellers who are not occasional must, by statute, collect and report sales taxes. A provision of last year's budget established a reporting requirement for operators of flea markets. This report would enable the Department of Revenue to determine who is a frequent seller, rather than occasional, by allowing the Department to compare that list with those who have filed tax reports.

"This is not intended to require every occasional seller to collect taxes, but to encourage compliance with existing law."

Dale W. Schultz

FROM THE EDITOR: As noted in last month's Badger State Smoke Signals, this is bad law. Our founding fathers wrote "No taxation without representation." We have representation, but taxation is no picnic with it, either! We'll have more next issue. And, we need someone to make a good, in-person presentation to the folks in Madison.

- K9ZZ

# Correspondence

## From Our Readers

### WHAT'S THAT DOGGONE RACKET?!

Dear BSSS:

While I'm sending in this (no-code) survey, I also would like to include an idea that's been floating around in the empty spaces between my ears for a couple of months.

I've heard hams on the air complain fairly frequently about unidentifiable sources of RFI. I have found - and I'm sure that many other hams have, too - that RFI comes from a lot of surprising sources: VCRs (the RFI may vary, depending on whether or not the timer is on), touch-switch lamps, scanners, light dimmers, thermostats in heating pads and electric blankets, intercoms that use household wiring to carry the signal, computers, printers, - these are just a few that come immediately to mind from my own experience.

My idea is that BSSS carry a list every so often of in-house RFI sources that your readers have identified through experience. It just might keep some guy from blaming the power lines a half-mile away, when the problem is really his touch-switch lamps.

Anyway, do what you want with this idea. For myself, I never blame any outside source for RFI until I've turned off virtually everything in my own house. The problem is almost always within my own walls.

- Bill, KA9D  
Eau Claire, WI

Sounds like a good idea, Bill! Are you paying attention, readers? If you have had experience in identifying RFI sources, particularly in your own humble abode, please tell us about the sources you have found. When we accumulate a few, we'll publish a list. Send your list of sources to RFI, Badger State Smoke Signals, 412 1/2 Ash Street, Baraboo, WI 53913.

### LODI 147.825/147.225 REPEATER IS CARRIER ACCESS AND IS OPEN TO ALL

Dear Jim:

In the recent issue (Vol. 20 No. 6) of Badger State Smoke Signals, there appeared a listing of Wisconsin Repeaters. When reading the listing, I was left with the impression that the K9EYY Repeater is a closed repeater. Perhaps I misread the codes, which are not all that clear to me.

The reason for this letter, Jim, is to let you and the other Hams who might be interested that the K9EYY Repeater is

OPEN to all. We encourage Hams to use it.

Let me give you an overview of the machine. It is open to any Ham. It is accessed by CARRIER, except on those fairly rare occasions when the DeVry Institute in Chicago interferes. When that happens, I put the machine on the subaudible tone mode. As I say, it is rare when it cannot be brought up using carrier only.

It does have autopatch. The autopatch is new, and at the present time it is being debugged. When the patch becomes fully operational, we will attempt to make it available to everyone.

The repeater is located at 89 31 15 West, 43 20 00 North, about one mile southwest of Lodi, WI.

The entire machine was constructed using Hamtronics kits. Its antenna is about 1200 MSL. The repeater has operated over four years now.

Jim, I really appreciate the nice job you and the others do, putting out the publication. It must be a real chore.

Kindest personal regards,

J. S. "Stu" Gurske, K9EYY  
Lodi, WI

Jim:

June issue was not only biggest, but terrific. What would we do without you? Keep 'em coming, Jim.

Rich Regent, K9GDF

Thanks for the kind words, folks. I've kept them coming for just under 20 years. I hope to keep them coming for more than 20 more, but, unless we find a way to acquire some state of the art, modern production equipment - read that desktop publishing system - I may not be able to continue much longer. Producing this paper with the equipment here is clumsy, much too time-consuming, and just plain silly, when the right equipment is out there. -ZZ



Sir, may I temporarily set my mag mount on your helmet? I can't seem to reach the repeater from here.

## Ozaukee Radio Club Chooses Ham of the Year

Although it seems like being chosen as Ham of the Year can happen suddenly, it really takes many years of hard work to qualify.

In 1938, twenty-year-old Elmer J. Bauer studied for the Amateur Radio test, passed the test, and was first licensed with the call W9ECX. Joe, as his friends call him, has been active on CW in 160-meter contests, the Field Day event (the club uses his current Extra Class call sign, W9WQ) and, until the recent sunspot cycle made propagation poor, he has been attracted to DX hunting. "I have DXCC, but quit counting countries around the 165 mark. Being retired, hamming is a great way to fill in the hours." W9WQ is even heard on two-meter mobile talking to his friends.

Recently, Joe was chosen as Ham of the Year by his fellow Ozaukee Radio Club officials and members.

Joe's son, Michael, who lives in Virginia, has been actively licensed as W7GW. W9WQ is the Ozaukee Radio Club's Newsletter Editor, 37/97 Repeater Trustee, and has admirably held many of the club's offices, except treasurer. "They won't let me touch the club money!" says Joe, sheepishly. "I've never been Repeater Vice President, either," he admits, "because I don't care for tower climbing. Good old terra firma, the more firma, the less terra."

Gray haired, brush haircut, and neatly trimmed mustache, Joe is easy to recognize as he smiles at the last joke, and then quietly departs on his happy, but busy, Ham of the Year way.

- Richard Regent, K9GDF

## ARRL Asks Reconsideration, Stay of New Part 15 Standards

(Continued from front page)

ARRL's call for the Commission, on reconsideration, is to include the amateur bands among the restricted bands; not increase permitted RF emissions for non-licensed radiators over their former levels; and require that information on a manufacturer's responsibility to resolve RFI problems be included in the owner's or user's manual for home electronic equipment.

In the Motion for Stay, the League establishes that irreparable harm will occur if the new rules are allowed to go into effect as scheduled on June 23, since it would be virtually impossible to remove equipment from service the Part 15 equipment that would then be permitted into the marketplace.

- The ARRL Letter





# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPRA)

c/o CARL SCHUMACHER, N9BYS  
7740 EVERGREEN TERRACE  
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

New Amateur / Packet BBS Online

Traders Cove! BBS is a non-business Ham oriented phone line BBS that will be put in service on or about the 20th of June, 1989. The data line will be installed on the 20th of June, and hopefully by the 23rd or 24th of June the BBS will be available to Hams. Traders Cove!, run by N9BKJ, will be on line throughout the 24 hour day, however, it may be off line for very short periods for other non-ham related purposes, but for the most part it will be available throughout the day and evening.

To start there will be 8 file sections as follows:

- A) IBM/Clones/Compatible Ham Shack
- C) C-128 Ham Shack
- E) Apple Ham Shack
- G) TNC2
- B) C-64 Ham Shack
- D) Amiga Ham Shack
- F) When In Doubt Put It Here
- H) PK232

File sections will be added as required.

There will be 8 message folder sections as follows:

- Y) Deleted Message Review
- A) IBM/Clones Mail Folder
- C) C-128 Mail Folder
- E) Apple Mail Folder
- Z) Comments To The Sysop
- B) C-64 Mail Folder
- D) Amiga Mail Folder
- F) TRADERS COVE! Mail Folder

Message folders will be added as required.

This is a totally non-business, non-profit, absolutely free bbs that will be open to hams and others who have interest in Amateur Radio Communications. It will be entirely up to users to build the various file and message sections of the bbs, so remember to be a contributor/depositor of programs and files as well as a downloader of programs and other files. There is only one security level that "fits all", you will be allowed full access to the bbs with exception of not being able to perform any functions restricted to the Sysop (Obviously).

SO WHATS THE PHONE NUMBER YOU SAY? Here it is, write it down:

(715) 258-0986

Every precaution has been taken to make the bbs fly right the first time, but MURPHY's LAW still applies, so if things go bump in the night once in a while in the beginning, don't get discouraged, we'll put some more grease on the wheel and keep it going for you.

To Sysops of MBL/RLI/AA4RE bbs's, I'll try to have the latest releases of the bbs codes available, perhaps we can even get WA7MBL, WORLI, AA4RE to upload the latest code as it becomes available, or some other individual that would be willing to make the contribution. Anyone willing to do so, should drop me a note, that way we can avoid several from performing the same redundant task.

Lastly, "UPLOADS OF COMMERCIAL SOFTWARE PRODUCTS IS ABSOLUTELY FORBIDDEN, IF IT AIN'T ABSOLUTELY FREE TO END USERS, DON'T UPLOAD IT HERE, IT CAN BE COPYRIGHTED SUCH AS IS THE WORLI BBS CODE, BUT IT MUST NOT REQUIRE ANY LICENSE/REGISTRATION FEE, OR ANY OTHER FEE. The bbs will elaborate further on this issue. I hope Hams will use it, it took some smooth talking to convince the XYL that the additional expense was justified for Ham Radio.

Bob, N9BKJ SYSOP

## Informal Packet Meeting Held At Stevens Point

An informal packet meeting was held in the lounge adjoining the Stevens Point Swapfest, June 18. The meeting was attended by more than a dozen area packeteers, as well as some familiar packeteers from throughout the state. Dan - WB9TYT led the discussion about packet growth and future plans as well as a question and answer session for newer packeteers.

## Atari ST On Packet

I'm using an Atari ST on packet, and have found a number of useful programs for it, such as WORLI v4.0 PBBS, packet terminal programs, TCP/IP, etc. I'd like to get an informal ST-PACKET users group going for exchange of programs, development & refinement of hardware/software, hints, etc.

Interested? Drop me a note with your full name, call, QTH, home BBS (forwarding BBS that you receive mail at), and equipment brag. If you have any interesting tips, etc., feel free to enclose them. When I get a decent amount of them, will throw together a packet newsletter and forward it out to you.

If you want a copy of any packet PD software, send a stamped, addressed mailer and disks

as follows:

WORLI BBS and PACK-E-TERM packet terminal programs: 1 double-sided, formatted disk

TCP/IP & docs (buggy software, but I'm trying to get the latest and greatest from Europe, where the ST is a hot ticket) 1 double-sided or 2 single-sided disks

TCP/IP only (if you can get USERMAN.DOC locally) 1 single-sided disk

Mike Curtis - WD6EHR, N6 North Hollywood CA 91605  
Chicago to Michigan Packet Link

I recently became intrigued with the idea of linking the Chicagoland area with Michigan. I discussed this with fellow NIPRFC board member and sponsor of the WIN NET/ROM node Don, KK9H and we decided to investigate the potential for such a link.

I am happy to report that we have identified interested packeteers in Michigan and have located sites with high antenna elevations. So, we have begun to assemble the necessary hardware to put up the link.

The link will initially be using NET/ROM nodes on 2m and we should be able to begin testing the path between Winnetka, IL and Benton Harbor, MI in early July. If all goes well we may eventually move it to 220. If the new IAPR packet radio comes out this winter we will then link into the Chicago area high-speed network, but until that time we will use 1200 baud NET/ROM nodes.

For those of you who are curious, I want to be clear that this is a private effort between individual hams in Illinois and Michigan and in no way involves CAPRA or any other club.

I will keep you posted as our construction effort continues and give you more details when we get the link up.

Mark - WB9QZB

## Third Party Traffic Hints

PLEASE use: KT xxxx (where xxxx is the message number on the packet bulletin board to kill a "Traffic message" AFTER you download it and log it to disk or printer (try NOT to do as I've occasionally done and kill a message before actually getting it's content is some retrievable form < g r i n > - Note, this will ONLY work for "I" type messages - you'll get an error message if you try to kill a bulletin or private message.

Next, let's try using "Bulletin ID, or BIDs" (which are really a misnomer, but are what the BBS folks call them.) The format for this would be: ST 80110 \$N8XXxxxx (where xxxx = a unique serial

number). "BID" starts with a \$ sign, then your call (for uniqueness) and a serial number assigned by you. For convenience I use the same serial number as my third party message number.

The destination BBS will recognize the BID, and store it associated with @the message. If the sending BBS does try to forward a duplicate copy, the destination BBS will say "NO, YOU STUPID BBS BBS, I've already got that one - kill it." Only one copy will stay on the board. This will happen on the WORLI BBS, and several others. I think it will work for WA7MBL BBSs, except the BID is destroyed when the message is read and killed (by that time, hopefully the sending BBS will know it has been received by the destination BBS).

I'm not absolutely sure what happens when such a message reaches a BBS which cannot handle BIDs on non-bulletin. I've checked with a couple well known BBS SYSOPS, and the software SHOULD be smart enough to strip the BID from the message - leaving things as they are currently - namely subject to occasional replication before getting in the hands of the delivering station.

Let's give the BIDs a try - and remember - use "KT."

As always, comments, suggestions, and critique are welcome.

Hank - N8XX, Eighth Region Packet Manager

Medical Packet Group

I'm very much involved in FidoNet and land-line BBS networking in medicine, and I'd like to form a group of persons interested in medical applications of packet. Please contact me at N4VRB@W4NVU if you are interested, or drop me a note on my landline BBS, (305) 325-8709, up to 2400 baud.

Richard Kaplan - N4VRB

Please help us help you. Join WAPR (Wisconsin Amateur Packet Radio Association) & you will receive a year's subscription to Badger State Smoke Signals, a Monthly Newspaper about & for Wisconsin Hams, and you will also be contributing to the building and upkeep of our growing network of digi-peaters and/or nodes. The annual dues are just \$12.50 a year. (July 1 to July 1). We are including an application form which you may want to fill out. No problem if you do not. The info is put into a Database & a roster is then published & will be on all BBS's in the state. Please make out your check or money order payable to either WAPR or Carl Schumacher & send it to Carl at 7740 Evergreen Terr, Burlington, WI 53105.

Thank You, Dan, WB9TYT, Chairman of WAPR...

The OM thinks nothing of getting up at six o'clock -- and the Jr. Op doesn't think much of it either.

We went to a hamfest auction, and bought a Lysco transmitter just by scratching our ear.

Lightning shocks amateurs because it doesn't know how to conduct itself.

XYL: "Darling, when we were young, you used to nibble my ear."

OM: "So I did! You stay right there -- I'll go get my teeth."

One TV addict accidentally turned on his rig the other evening instead of the TV and thought he had gone blind.

W0CCT (via ARNS)

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MEMBERSHIP APPLICATION**

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STATION: POWER \_\_\_\_\_ ANT GAIN \_\_\_\_\_ HEIGHT \_\_\_\_\_

TNC \_\_\_\_\_ COMPUTER \_\_\_\_\_

STATION CAPABILITIES: HF \_\_\_\_\_ 2M \_\_\_\_\_ 220 \_\_\_\_\_ 440 \_\_\_\_\_

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# Yellow Thunder Amateur Radio Club

K90DK  
WB9FDZ

Harry Westlund, K9EHJ,  
Secretary  
720 Jefferson Street  
Baraboo, WI 53913



The next meeting of the YTARC will be held on Wednesday, July 19, 1989, in room 25 of the Baraboo Civic Center. The meeting will begin at 7:30 pm.

The June 13th 1989 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order by Vice-President Art Kleefisch, W9WSS at 7:48 pm.

The following members and guests were present:

Steve Schwoegler, WB9RNL	Wisconsin Dells
Marvin Kaiser	Lake Delton
Joey Sweeney	Portage
Dennis Sweeney	Portage
Harold Reif, KA9YQP	Baraboo
Art Kleefisch, W9WSS	Baraboo
Jim Decker, WB9UQT	Baraboo
Harry Westlund, K9EHJ	Baraboo

The minutes of the previous meeting were approved as printed in the BSSS.

The Treasurers report was read and accepted.

There were no communications from the Secretary.

New Business: The matter of Field Day participation was brought up. The usual problems of lack of operators and portable power were discussed. Several members volunteered to attempt to repair the power generator. It looks like we will have about 5 to 7 operators and 3 to 4 rigs. The members will meet at the site at 11:00 am.

With no further business, the meeting was adjourned at 8:38 pm on a motion by Steve Schwoegler, WB9RNL and seconded by Harold Reif, KA9QYP.

The "Buck Nite" drawing was won by Harry Westlund, K9EHJ, who was present to claim his prize of \$5.00.

Respectfully submitted,  
Harry Westlund, K9EHJ, Secretary

## YTARC BIRTHDAY

Charles Scholten W9BZU July 19

## SENTENCE SERMON

The Declaration of Independence was a vital piece of practical business, not a piece of rhetoric. -- Woodrow Wilson

## FIELD DAY

The generator was repaired with an outboard ignition system and gave perfect service for field day. The operators that made it up to Owen Park had a good time. More details at club meeting and here next month.

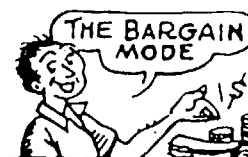
Call signs as of June 1, 1989

Extra	Advanced	Tech/Gen	Novice	District
WUOD	KFODF	NOKSI	KBOESV	0
NW1X	KC1PG	N1GQB	KA1UAD	1
WQ2D	KE2NQ	N2JNE	KB2HZB	2
NV3C	KD3NJ	N3HEE	KA3UUF	3
AB4OX	KM4TJ	N4VYU	KC4LCJ	4
AA5LY	KG5UV	N5OOJ	KB5JSS	5
AA6OI	KJ6VH	N6VIG	KC6ECG	6
AA7AM	KF7UG	N7MXE	KB7HZR	7
WT8H	KE8ZS	N8KWU	KB8HOK	8
WI9D	KE9QP	N9IOJ	KB9CYJ	9
AH0H	AH0AE	KH0AM	WH0AAL	MARIANA
KH2K	AH2CE	KH2DW	WH2AMF	GUAM
AH3B	AH3AC	KH3AB	WH3AAC	JOHNSTON
AH4AA	AH4AA	KH4AD	WH4AAF	MIDWAY
AH5A			PALMYRA/JARVIS	
AH6JU	NH6TK		WH6CDN	HAWAII
	KH7AA			KURE IS
AH8C	AH8AD	KH8AH	WH8AAZ	AM. SAMOA
AH9A	AH9AD	KH9AD	WH9AAH	WAKE
	AL7LG	NL7RY	WL7BVA	ALASKA
NP2E	KP2BP	NP2DD	WP2AGV	VIRGIN ISLANDS
	KP4QE	WP4VX	WP4IKJ	PUERTO RICO

Call signs are issued based on the FCC form 610 mailing address.

We have two chances of winning a dispute with the XYL -- Slim and None.

BSSS hopes that you all had a great Field Day weekend. We would be interested in hearing about your clubs activities. Pictures are especially welcome.



# SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

WANTED: Modem for Commodore 128, 300/1200 baud. Xtals for HF novice band. Bill Wood, WB9YV1, Rte. 1, La Crosse, WI 54601

FOR SALE: Spectrum Communications Model SCR-1000/SCAP 75-watt output 2-meter repeater. Has autopatch, reverse patch, courtesy tone and anti-kerchunk filter built in. All equipment manuals. Contact Mike Schoenfuss, N9GHZ, P.O. Box 401 Abbotford, WI. 54405 or phone (715) 223-3996 after 8 PM.

WANTED: Old or unusual telegraph keys and bugs. Contact Jerry Scherkenbach at call book address, telephone (414) 481-8831 or Packet radio N9AW @ WB9TYT.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

FOR SALE: TEKTRONIX 7504 oscilloscope with the following: 2 7A16 vertical amplifiers, 7A22 differential amplifier, 7B50 time base, 7B51 delay time base, 7D13 digital multimeter, 7M11 delay line, 204-1 mobile cart & probes. Working in good condition but some modules may need minor repairs. \$2000.00. Kenneth A. Ebner, 822 Wauona Trail, Portage, WI 53901. (608) 742-3560.

FOR SALE: SENCORE test equipment - DVM56A Digital Voltmeter, \$600.00; 2 PR57 "Powerite", \$300.00; SC61 Oscilloscope, \$2000.00; VA62 Video Analyzer with NT64 NTSC adaptor and VC63 VCR adaptor & expander adaptor, \$2800.00; CR70 CRT tester/restorer, \$800.00. SC61 & PR57 are less than 2 years old, others less than 4 years. Kenneth A. Ebner, 822 Wauona Trail, Portage, WI 53901. (608) 742-3560.

Badger State Smoke Signals welcomes the members of the Taylor County Amateur Radio Club to our pages. Beginning next month, a new section will be added with news from Taylor County. If your club would like to participate with your club section, please contact Ken Ebner, K9EN or Jim Romelfanger, K9ZZ. Their addresses are on page 2 of BSSS.

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South Milwaukee ARC PO Box 102  
Milwaukee, WI 53172

## Tri-County ARC Presents Fall-Fest 1989

Due to a busy club commitment schedule,  
Fall-Fest '89 has been cancelled.

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